

Student Academic Conference Abstract Books

2016

18th Annual Student Academic Conference

Minnesota State University Moorhead

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SAC
2016



Tuesday, April 12, 2016

MINNESOTA STATE UNIVERSITY MOORHEAD PRESENTS

18th Annual Student Academic Conference

*Student-Centered Education through Mentoring
Student Research and Creative Activities*



Since 1999



MINNESOTA STATE UNIVERSITY
MOORHEAD®



Greetings:

At Minnesota State University Moorhead, our purpose is to transform the world by transforming lives. Few experiences are as life changing as the opportunity to engage in original research or creative activity and present the results to our academic community.

The projects being presented today represent countless hours of planning, problem solving, experimentation, investigation, innovation, and preparation. Behind every project there is not only a motivated student but also a dedicated faculty mentor. It is the mentoring relationship—whether in the laboratory, the field, the theatre, the studio, the computer lab, or the classroom—that makes these applied learning opportunities truly transformative.

A cursory review of the conference program reveals that our students are tackling problems such as cancer, diabetes, global warming, sustainability, racial and gender inequality, and child welfare. In short, the Student Academic Conference provides ample evidence that

Minnesota State University Moorhead is a place where faculty and students work together to address some of the most important problems we face. In doing so, you have also contributed to the spirit of discovery, creativity, and innovation at the University—a spirit that enriches us all and just might change our world.

Congratulations to all of the student presenters and best wishes for continued success.

Sincerely,

A handwritten signature in black ink that reads "Anne Blackhurst". The signature is fluid and cursive, with a long horizontal line extending from the end.

Anne Blackhurst
President



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18th Annual Student Academic Conference

Tuesday, April 12, 2016

8:00 a.m.	Featured Graduate Students' Lectures <i>CMU 101</i>
9:00 a.m.	Poster Set-Up—Registration/Information Table <i>CMU Main Lounge</i>
9:40 a.m.	Presentation Session 1 and Poster Session 1 <i>Various CMU Rooms and Poster Display Area</i>
11:00 a.m.	Seating for the Luncheon <i>CMU Ballroom</i>
11:10 a.m.	Luncheon Starts (Welcome and Introductions) <i>CMU Ballroom</i>
11:50 p.m.	Keynote Speaker—Christina E. Broadwell <i>CMU Ballroom</i>
12:10 p.m.	Student Panelists <i>CMU Ballroom</i>
12:40 p.m.	Presentation Session 2 and Poster Session 2 <i>Various CMU Rooms and Poster Display Area</i>
2:00 p.m.	Break
2:10 p.m.	Presentation Session 3 and Poster Session 3 <i>Various CMU Rooms and Poster Display Area</i>
7:30 p.m.	Working <i>Gaede Stage</i> <i>Based on Studs Terkel's best-selling book of interviews with American workers, Working paints a vivid portrait of the men and women the world so often takes for granted.</i>

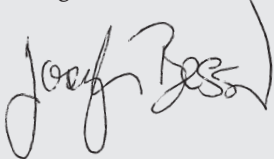
Conference Participants and Attendees:

It is my honor to offer heartiest congratulations to this year's participants in the Student Academic Conference! Your initiative, energy, and scholarship have earned you a place in this important annual event. It showcases not only the academic work you've produced, but also illustrates and emphasizes your own leadership as investigators in and promoters of your academic discipline. I am personally excited and looking forward to the presentations.

This event allows our students to participate in what, for many of them, will become a regular part of their own future careers: for those who continue on to graduate degrees, the work of the academician requires not only the ability to investigate, to analyze, to compare and contrast—but also to articulately distill their results and discoveries in order to contribute to a broader scholarly conversation, on the one hand, and that provide practical consequences for all our lives, on the other. But even for those who move on to non-academic careers, the ability to investigate, to acquire new information, to analyze and synthesize it, to present it, converse regarding it, and to apply it—all these skills are necessary and are evidenced by this year's student participants.

For those of you in attendance, well, you're in for a treat! Your attention to, enthusiasm for, and support of this event and our students is testimony to the great work of our students, and of the faculty and staff here at MSUM who serve as their mentors.

Congratulations, and thank you to all.



Joseph Bessie, Ph.D.
Provost and Senior Vice President for Academic Affairs





Christina E. Broadwell



You don't need to go to an Ivy League school for a first class education.

I am so happy to be back home and at MSUM. I am honored to speak to all of you this afternoon... to share with moment with my family, to catch up and laugh with old friends, to give thanks to mentors and to meet and maybe steal some energy from young eager minds. Congratulations on all your hard work and achievements. You should all be very proud of yourselves and each other. Thinking back on my years at MSUM, participation at this conference, presenting research and my role as a student panelist, I became more nervous about taking on this new charge. What can I say that is important? What can I tell you that you don't already know? What would reach my ears and make me think 15 years ago? What

would I listen to? What would help me on my path? I don't know the answers to those questions. What I know is this... I would not be where I am today without MSUM and the very unique opportunities we provided to each other. MSUM gave me so much, I hope that what I gave/give back does not fall short.

So where am I? I am currently an assistant professor at the University of Wisconsin – Madison as a part of the department of Obstetrics and Gynecology. When I finished my education and training through residency and fellowship I had “graduated” from the 27th grade. No small feat.

Throughout these years, I worked with individuals from across the country that trained at some of the most prestigious schools in this country and abroad, Harvard, Stanford, Princeton, Yale, etc. At times I can still be intimidated by the names, but I have never felt as though my training and my education at MSUM was inferior to those listed. Of course it was different but not inferior. In fact, I strongly believe it was **that difference** that allowed me to have a wonderful advantage over them in the end.

That difference gave me so many things.

I met people like Dr. Jill Frederick, who taught me how to read poetry and write a fairly decent essay. Dr. Andrew Conteh, who taught me to how to understand how law is like the air we breathe. Jill Frederick, who opened the world to me, well Europe anyway with a wonderful Eurospring adventure. Last, but definitely not least, Dr. Mark Wallert, who gave me my academic future. Who gave me the opportunity to be where I am now through his time, his mentorship and his friendship. To my friends, Tanya Haugen, Christy Ficek, Jessica Jorgenson, Janine Solberg, Scott Hochhalter, Anna Lee, Gary Bailey, Tracey Anderson, and countless others who helped me be human. In all my goodness and badness, in my positive and negative moments. Without all of you the journey would have been less personal and less fulfilling.

That is a complete education. An education that gives, and can give even more depending upon what you give back to it. An education that provides a map for you to find your own, individual path. Not “a Suri” dictating a path with a blue line where to turn and where to focus your energies. The smaller sizes of classes, the wonderful teachers, and hungry classmates to help guide and challenge your education. Thank you, thank you, thank you. I hope I gave back as much as I took. I hope your example helps me continue to give back more than I take away. Thank you.

“What I know is this... I would not be where I am today without MSUM and the very unique opportunities we provided to each other. MSUM gave me so much, I hope that what I gave/give back does not fall short.”



Student Panelists

Student Academic Conference 2016

Student panelists represent outstanding academic achievement and demonstrate a passion for learning in and out of the classroom. Each panelist will prepare a reaction to the keynote speech. Their responses will be delivered following the keynote speaker's address.



Jennifer DeBlieck

MSUM Graduate student

Major: Master of Science in

Speech-Language Pathology

Currently, I am a student in the Master's of Science in Speech-Language Pathology (SLP) graduate program at MSUM. Growing up in the small town of Granite Falls, Minn., my passion for helping children began at a young age, which has guided me into this field. Here at MSUM, I have been provided with a wealth of opportunities during SLP classes, internship placements, and volunteer experiences. These opportunities have allowed me to gain leadership roles and become a confident professional. Previously, I have presented research at the American Speech-Language-Hearing Association National Convention; and, I am honored to present at the Student Academic Conference as well as participate in the student panel. My research topics have involved *Classroom-based Interventions by the Speech-Language Pathologist* and *Entry-Level Speech Language Pathologists' Perceptions of Effectiveness of Graduate School Education: A National Survey*. My passion lies in the school setting, helping students academically and socially. They are the future of this world and I am eager to see them learn and grow. The education I have received from MSUM has been exceptional and I can't wait to continue this by becoming a Speech-Language Pathologist.



STUDENT PANELISTS



John Fitzer

MSUM Senior

Major: Philosophy and English Literature

I am currently a senior at MSUM pursuing degrees in Philosophy and English Literature. In 2011, I married my wife, Jean, and returned to school shortly thereafter with her encouragement. My decision to pursue degrees in both Philosophy and English Literature is due to my interest in helping produce a better society by promoting more well-reasoned dialogue and better understanding of different perspectives. As the world continues to change at a rapid pace, we will need people to critically think about many of the serious issues that humanity faces. Both of my degree programs provide me with these critical thinking tools. This past semester I presented a paper on metaphysics at a philosophical conference in Columbia, Mo. This semester, I will be presenting a paper at the Student Academic Conference on a philosophical problem known as the *Ship of Theseus*. On campus, I tutor students in symbolic logic and practical reasoning. I hope to apply all of these experiences to a successful graduate school career while I pursue an advanced degree in philosophy.



Benjamin LeMay

MSUM Senior

Major: Physics and Sustainability

Originally from Hugo, Minn., I became interested in studying physics at a young age. I decided to major in physics when the opportunity to gain a meager peek at the underpins of the universe and the physical world around me presented itself. Additionally, I chose to pursue a degree in energy sustainability during my sophomore year at MSUM to become versed in the problems that will inevitably have to be addressed by future generations. One of the fortunate consequences of studying sustainability is that I wasn't tethered to one individual department and had opportunities to study alongside remarkable students and faculty on a variety of projects. Interdepartmental research such as designing an automated theatre prop and developing a pump control system for a tidepool simulation were crucial tools that aided in bridging the gaps between all disciplines I was studying. I can say without any pangs of conscience that MSUM, with particular consideration regarding the Physics Department faculty, have built a solid academic foundation and instilled a drive in me to continue investigating, questioning and improving the world around me.



Netsai Ngongoni

MSUM Senior
Major: Accounting

I am a senior at MSUM pursuing a degree in accounting. I grew up in Zimbabwe and from the time I was in high school I knew my desired career. I spent my time in college developing and focusing on my strengths. In my sophomore year, I took on the challenge of applying for an upper-class apprenticeship. For the past two and a half years, I participated in research with two faculty professors. Last year I completed preliminary research on Measuring Effectiveness of Aid Agencies. My research mentor and I are currently waiting for the opportunity to get our research published. This year, I continue to work with another professor on various accounting related topics. I have acquired a lot of knowledge from this experience. Throughout my college experience, I engaged on campus as a resident assistant, peer advisor, and swimming instructor. I participated as a leader in Students Internationally Together, Campus Crusade for Christ, and the Student Advisory Board for the College of Business. After college, I intend on pursuing a masters in accounting. I aim to use my leadership experience and attained knowledge further on in life as an accountant.



Leandra Zeller

MSUM Senior
Major: Communication Studies

I am currently a senior here at MSUM. My major is Communication Studies and my two minors are Public Relations and Leadership Studies. I grew up in Wahpeton, N.D., which is only 45 minutes south from Fargo. This will be my first time presenting in the Student Academic Conference. I am excited to show the research I've been conducting with my three other group members. Together, we are giving an oral presentation about whether or not the First Year Experience class leads to persistence at MSUM. This is an interesting subject to me, because I never considered leaving MSUM. I've enjoyed my classes, the professors, as well as the students I've done many group projects with. I am also thankful for all the lifelong friends I have met throughout my college experience. MSUM has definitely prepared me for graduation this spring. I love the F-M area and look forward to seeing what my future brings after college.



Graduate Panelists

Student Academic Conference 2016

MSUM has a history of presenting the Dean's Graduate Lecture Series in which graduate students are nominated and undergo a competitive process to be chosen to present their research to the campus community. For the second year, this lecture series has been incorporated into the Student Academic Conference. The featured graduate lecturers will present on the research completed within their respective graduate programs.



Katie Diiro

*MSUM Graduate Student
Major: Master of Science in Counseling
and Student Affairs*

My life has been bursting with Dragon Pride as I completed my undergraduate degree in Film Studies: Production from MSUM in 2007. An undergraduate goal of mine was to create an international documentary. With the support of my family and professors at MSUM I traveled to Tanzania, Africa in the summer of 2011 to begin this process. I developed a deep love for African culture, specifically Tanzanian culture. My final project for MSUM utilizes my film degree and graduate degree in Counseling and Student Affairs. The hope is to create research-based programming to assist the Tanzanian people in increased awareness and utilization of mental health. I am extremely grateful for the opportunity to study and grow as a Dragon. It is an honor to study amongst individuals who practice grit, heart, and humility each day.



Alannah Dosh

MSUM Graduate Student

Major: Master of Science in School Psychology

I am currently a second year student in the School Psychology graduate program at MSUM. I grew up in Brainerd, Minn., and then I moved to North Dakota for college. I attended the University of Jamestown, earning a Bachelor of Arts degree in psychology, criminal justice, and Spanish. I chose the graduate program at MSUM because of the professors and structure, and I have enjoyed it here ever since. The professors have provided me with multiple opportunities that have furthered my professional and personal life. The program has prepared me for various aspects of school psychology with experiences in three different practicum settings. In addition, I have recently been able to collaborate with area school districts as I developed a video training module, which has led me to present at the state and national school psychology conferences. I will begin my internship in August at a special education cooperative in Valley City, N.D., working with the surrounding rural school districts. I am excited for the challenge of this position and to be closer to beginning my career as a school psychologist.



Carol Roth

MSUM Graduate Student

Major: Master of Science in Nursing Education

I recently graduated from MSUM and received the Degree of Master of Science in nursing education. The passion I have for nursing and life-long learning has been rooted in the primary practice areas of public health and nursing education. I was able to fulfill a career dream last August when I accepted a nursing faculty position at MSUM in the School of Nursing and Healthcare Leadership. I have served on numerous local community and North Dakota statewide collaborative and special interest groups. I am a member of the Sigma Theta Tau International Honor Society of Nursing. In addition, I enjoy volunteering in the community on projects associated with the adult homeless shelters. Current trends in nursing today have contributed to job dissatisfaction and nurses leaving the profession. As the shortage in nursing and other healthcare professions escalates, retention of a competent workforce is becoming increasingly more important. As a nursing educator, I want to better prepare students for their role as a newly graduated baccalaureate prepared registered nurse. I am honored to present my nursing research at this conference, and a heartfelt thank you to the members of my thesis committee.

Inga Sveen & Emma Van Valkenburg

The Experience of Individuals with Down Syndrome

> Inga Sveen
Major: Speech Language Pathology
Year in School: Graduate Student
Hometown: Fergus Falls, Minn.

> Emma Van Valkenburg
Major: Speech Language Pathology
Year in School: Graduate Student
Hometown: Bismarck, N.D.



>By Brittany Kelley

There are more than 6,000 babies born in the United States with Down syndrome annually. This chromosomal condition is present in people of all race and economic level, occurring when an individual is born with extra chromosome 21. With more than 400,000 people living with Down syndrome in the U.S. alone, seniors Inga Sveen and Emma Van Valkenburg (speech language pathology) hope to better educate their audience on how individuals with this disease handle life.

More specifically, the two students are focusing on high school graduates with Down syndrome and their transition to a vocational setting.

To investigate this, a qualitative grounded theory method was used to understand what transition period involves and how speech-language pathologists can aid in the development of this transition period.

The presentation aims to share the experiences of not only the graduates but also their family members and school-based professionals who have worked with them.

“We wanted this study to be beneficial to a variety of people, not just in our profession.”

– Inga Sveen

Van Valkenburg and Sveen interviewed guardians and special education professionals to provide data that was then analyzed. The resulting theory may assist all individuals involved in the improvement of this transition period.

“We wanted this study to be beneficial to a variety of people, not just in our profession,” explains Sveen. “But we did try to look a little bit closer to the speech pathologist roll in this transition just to see what we can do to better improve it.”

Their presentation will cover different perspectives from all of the people who work with individuals with Down syndrome as they enter post-high school life. Nearly 38 percent of Americans know someone with Down syndrome, which is why Van Valkenburg and Sveen want to raise awareness.

A topic that is pertinent to our community, many are unaware of the obstacles that high school graduates with Down syndrome face once completed with high school. Van Valkenburg and Sveen hope their presentation can serve as a sort of roadmap for parents and professionals along this new chapter of life.

“This transition is a huge time in this population’s life,” explains Van Valkenburg. “Anyone moving from high school to beyond is a huge step, and we want to be able to make it as easy as possible.”

Hannah Hoeschen

Major: Music

Year in School: Senior Hometown: Freeport, Minn.

Listening to Jazz: Understanding the Standards



> By Nate Gilbraith

Jazz is often hailed as one of America's original art forms. Having originated in New Orleans during the late 19th and early 20th centuries, this music genre, which makes heavy use of improvisation, syncopation and the swing note, quickly became America's favorite.

Throughout the 1900s, many different forms of jazz developed and rapidly started to influence emerging music genres. However, in the recent years jazz has seen a decline in listeners, especially among young adult listeners. Senior Hannah Hoeschen (music) hopes to change that through the education of standard jazz music elements.

"Jazz is very different from any other type of music because it's improvised and being done on the spot," explained Hoeschen. "It's not completely pre-meditated, which is where I think some people get lost."

"Jazz has changed a lot; I don't think it's dead and I don't think it's dying, there just seems to be a lack of education about it. I want to give people a reason to become interested in it."

– Hannah Hoeschen

In her presentation, "Listening to Jazz: Understanding the Standards," Hoeschen aims to give the audience a better understanding of this iconic music genre. Hoeschen will start by playing a standard jazz song and point out distinct jazz elements that makes this genre so unique.

"Jazz has changed a lot; I don't think it's dead and I don't think it's dying, there just seems to be a lack of education about it. I want to give people a reason to become interested in it."

Having come to MSUM with little knowledge of what jazz was, Hoeschen knows what it's like to discover a full appreciation and understanding for jazz. She has continued to study jazz and music for the past four years and wants to share her passion with the rest of the MSUM community.

"I think the audience will be surprised by how easy jazz is to understand, once the basic aspects are understood. Then jazz will open up a whole new listening experience... Learning to listen to jazz opens up new ways to listen to all types of music."

Mindy Kraft

Major: Film Production

Year in School: Senior Hometown: Wessington Springs, S.D.

What's So Funny: the complexity of film comedies



> By Trent Zbichorski

When it comes to watching movies, comedy is often a popular, if not favorite genre for many people. Movies like “Pitch Perfect,” “The Hangover,” “Ted,” and “Deadpool” are just a few favorites that fit the beloved genre. However, there is much more that goes on behind the scenes than what one may think.

Usually when most of us watch comedies, we laugh but don’t know the reason behind it. Senior Mindy Kraft (film production) hopes to change that through analyzing and critiquing different types of comedies that are popular today.

“I would actually like to have comedy looked at in a very serious manner. It is a true art form, especially for film, and I would like to show that.”

– Mindy Kraft

“I would actually like to have comedy looked at in a very serious manner,” explained Kraft. “It is a true art form, especially for film, and I would like to show that.”

In her presentation, “What’s so funny: the complexity of film comedies,” Kraft aims at viewing comedies in a theoretical way, while exploring some of the different categories, such as slapstick, gross-out, and dark comedies.

“It’s one of those genres that gets immensely overlooked because of its vagueness, which makes it hard to define,” said Kraft. “Comedy can seem like a cheap art form and it needs to be looked at in a more critical way.”

As comedy director for her senior capstone project, Kraft has developed an interest in studying comedies and how the films are put together.

“I think the audience will be surprised by how complicated comedies really are,” Kraft said. “There’s a lot more to it than just making people laugh and a lot more that needs to be discovered about it too.”

This will be Kraft’s second year presenting at the Student Academic Conference. Last year, she talked about teen movies across the world. This year, she hopes she can teach students about a topic that is familiar to many, but often overlooked.

“It’s just one of those genres people take for granted, myself included, so I’m hoping to dive into it a little deeper to show people that comedies are serious business.”

Amanda Littrell

Major: Elementary Inclusive Education

Year in School: Senior Hometown: Bismarck, N.D.

Art in Education



> By Nate Gilbraith

The push to incorporate science, technology, engineering and math (STEM) in education has been on the rise in recent years. While STEM is unarguably valuable within the education system, many educators are now pushing to add art to the mix, converting STEM to STEAM.

"Moving art into the STEM program is very important for our future," explained Amanda Littrell (elementary inclusive education). "We're moving into a huge technological age, it'd be insane to think that art is not part of that as well. Artists are creators and they are a huge part of how we've gotten so far in technology."

Littrell feels passionate about incorporating art into the education system because she directly benefitted from a choir class in middle school. She gives credit to her teacher for teaching her the importance of being self-aware and expressing herself through music and art.

"A lot of the time, we lose sense of how important art is, it's a great way to express emotions and a great way to learn about yourself. It can provide a very well rounded education."

Throughout her presentation, "Art in Education," Littrell will explore the purpose, the policy and the practice of art for educators. She hopes to raise awareness on how many schools lack the funding to provide students with art courses and how the lack of art in education can hurt a student's success.

"I would like for people to take away a better idea of what art in education is. I want them to consider art being just as important as math, science and reading," Littrell said. "Art is just as important as these subjects and if we use them together we'll be able to create an incredible education system that won't be able to fail."

While Littrell sees art being incorporated into more schools in the near future, she feels obligated to do as much in her power to raise awareness toward this effort.

"This whole movement of education is about social justice and having people feel cared about. No matter who you are, no matter where you come from. It's a new wave of education that's coming."

"I would like for people to take away a better idea of what art in education is. I want them to consider art being just as important as math, science and reading."

– Amanda Littrell

Gregory Anderson

Major: Life Science Education

Year in School: Junior Hometown: West Fargo, ND

K-12 Curriculum Development Using Marine Organisms



> By Trent Zbichorski

Many of us have to travel to vacation hotspots just to see unique animals. Places like California, Florida, and Hawaii are home to many different marine organisms that the typical Midwesterner doesn't often see. However, junior Gregory Anderson (life science education) hopes to change this by introducing students to some of the marine organisms that live on campus.

The marine lab in the basement of Hagen Hall contains various marine organisms that can be found in an ocean environment. Anderson hopes his presentation will expose the lab and make students want to regularly visit the organisms.

"The idea is to show off the facility, demonstrate some of the animals, and use them to teach about biology or science concepts in general," explained Anderson.

In his presentation, "K-12 Curriculum Development Using Marine Organisms," Anderson wants to engage students by allowing them to see marine animals without having to travel across the country.

"Students can experience an environment that we don't have around here," Anderson said.

"It's something that's thousands of miles away and has some completely different types of organisms that aren't around here."

After attending North Dakota State University with the intent to major in engineering, Anderson found out about the lab last year and developed a passion for science and teaching others about organisms.

"Last winter, I ran into my friend Phil here, and he showed me the lab and I completely fell in love," Anderson said. "It made me realize that I definitely want to work with this."

Anderson hopes he can bring in some of the animals to show off to students at his presentation. After transferring from NDSU last year, he wants to share his love for science with students at MSUM.

"I hope that they like seeing these different animals. I think that the creatures sell themselves and it's up to us to tact on these scientific concepts."

"Students can experience an environment that we don't have around here. It's something that's thousands of miles away and has some completely different types of organisms that aren't around here."

– Gregory Anderson

Brianna Bradley & Chloe Dougan

Contemporary Pop Culture and How it Intersects with the American Culture

> Brianna Bradley
Major: Music Industry
Year in School: Junior
Hometown: Fort Yates, N.D.



> Chloe Dougan
Major: Anthropology
Year in School: Sophomore
Hometown: Cedar Rapids, Iowa



>By Brittany Kelley

Slang is a type of language that consists of words and phrases regarded as very informal, typically restricted to a particular context or group of people. Words such as “savage” and “roll-herd” are quickly gaining popularity without the understanding of the true definitions. When used incorrectly, slang cannot only come off as uneducated but also offensive.

While attending the Power and Diversity Conference at St. Cloud State University, junior Brianna Bradley (music industry) and sophomore Chloe Dougan (anthropology) sat in on a presentation covering Native Americans and their representation in Hollywood and media. It was from there the two MSUM students drew inspiration to further the research on the topic, spinning it into how Native Americans are represented in media today.

Bradley and Dougan are Native Americans who find it problematic that mainstream society does not educate individuals on the culture of their ethnicity.

“I grew up on a reservation, and attending MSUM has been a bit of a culture-shock in a way that not everyone has gotten the same education about Native Americans that I did,” explained Bradley.

In their presentation, Bradley and Dougan hope to educate the public on the true definitions of certain slang words and how they affect people around them. Native American culture is overlooked,

and slang words such as savage are used without understanding the connection to the culture.

“I am Native American and I grew up in a city. Any knowledge that I wanted to seek about my culture is from history books. I know firsthand that the majority of people around us are not educated on my culture and my history,” said Dougan. “Moving to Moorhead, I joined a sorority where the word ‘savage’ became popular. I had to explain the context behind it, and explain how it is a hurtful word so people around me can make stronger word choices.”

Their presentation, “Contemporary Pop Culture and How it Intersects with the American Culture,” will be handled in a quirky manner. Bradley and Dougan want the audience to feel as if they are talking to a friend on a prominent subject rather than being talked at.

“We want people to resist mainstream society,” said Dougan. “We want people to resist problematic concepts that they don’t understand.”

**“We want people to resist
mainstream society. We
want people to resist
problematic concepts that
they don’t understand.”**

– Chloe Dougan



PRESENTATION LISTINGS

ACCOUNTING

Austin Robischon

Lehman Brothers

Advisor: Sheri Erickson

Mathew Breitbarth

Downturn of WorldCom

Advisor: Sheri Erickson

Morgan Ellis

HealthSouth Fraud

Advisor: Sheri Erickson

Jennifer Brooks Schrum

A Case of Fraud - Bernie Madoff

Advisor: Sheri Erickson

Tenzin Sherpa

The Enron Scandal

Advisor: Sheri Erickson

Sherry Carlsrud

Qwest Accounting Scandal

Advisor: Sheri Erickson

Morgan Ellis

ExxonMobil

Advisor: Mohamed Elbannan,

Sherry Carlsrud

The Walt Disney Company and Financial Statement Analysis

Advisor: Mohamed Elbannan

Aimee Mazoyo

A Financial Statement Analysis of Kellogg Company

Advisor: Mohamed Elbannan

AMERICAN INDIAN RESEARCH AND RESOURCE CENTER

Brianna Bradley and Chloe Dougan

Contemporary Pop Culture and How it Intersects with Native American Culture

Advisor: JoLynn Steile

ANTHROPOLOGY AND EARTH SCIENCE

Bret Salter

Animacy in Meskwaki: A Preliminary Look

Advisor: Erik Gooding

Lee Smalt and Jesus Romero Lopez

GIS Applications in Anthropology

Advisors: Erik Gooding, Kirk Stueve and Paul Sando

Beatrice Franke

The Thunderbird in Native Art of Minnesota and North Dakota

Advisor: George Holley

Carlie Peterson, Langley Bradley and Taylor Ness

2015 MSUM Archaeological Investigations at Chief Looking's Village

Advisor: Rinita Dalan

Gary George and Derek Sakrison

Environmental and Agricultural Implications of Subsurface Drainage in Clay County, MN

Advisor: Paul Sando

Amanda Cameron

Kava: A Drink of Death

Advisor: Bruce Roberts

Katelyn Dussik

Equine Therapy

Advisor: Bruce Roberts

Chloe Dougan

Adornments: How Two Wars can be Represented in a Single Button

Advisor: George Holley

ASTRONOMY

Laura Maixner

Automating Photometry with Python

Advisor: Matthew Craig

ATHLETICS

Sydney Klein and Zayne Medhaug

Take a Knee

Advisor: Wendy Frappier

BIOSCIENCES

Jaime Kallstrom and Scott Buchholz

Urban Canada Geese in Moorhead, Minnesota: What Do We Know After Six Years of Population Control?

Advisor: Donna Stockrahm

Jessica Lindstrom, Annika Bordak and Elisabeth Teige

Starting an LCCMR Prairie Restoration Grant: Monitoring of Small Mammals

Advisor: Donna Stockrahm

Jessica Lindstrom, Scott Buchholz, Sarah Sanderson, Jessica Loeffler, Elisabeth Teige, Eberardo Barragan, Jordan White and Marissa Reeves

Monitoring Painted Turtle Movements in Clay County, Minnesota, with a New Style of Trap

Advisor: Donna Stockrahm

Marissa Reeves and Stacy Peterson

Elucidating local bee species diversity using DNA barcoding in Clay County

Advisors: Sara Anderson and Rebecca Andres

Vincent Anani, Gabriel Pankonin, Jacob Humphrey and Bennen Bierman

The Role of mi-RNA and Homocysteine Regulation in Hypoplastic Left Heart Syndrome

Advisor: Adam Stocker

Vincent Anani and Nancy Castro Borjas

From Golf Course to Prairie: initial assessment of local microbiomes in restoration areas

Advisor: Sara Anderson

Eberardo Barragan

Use of Game Cameras to Document Urban Carnivore Species in Fargo-Moorhead City Parks

Advisor: Donna Stockrahm

Sarah Martinson and Christopher Flores
Photosynthesis: A 5-E Model Science Lesson
Advisor: Alison Wallace

Emily O'Meara and Amanda Murphy
The Science of the Atom: a 5-E Model Lesson
Advisor: Alison Wallace

Jillian Fox
How Plants Reproduce: a 5-E Model Lesson for Middle School Students
Advisor: Alison Wallace

Evangeline Holley and Matthew Geister-Jones
Phase Changes: A 5-E Model Science Lesson for 6th Graders
Advisor: Alison Wallace

Wyatt Pugh and Madison Geiser
Plate Tectonics: A 5-E Model Science Lesson for Eighth Graders
Advisor: Alison Wallace

Benjamin LeMay and Alexander LaDuke
Coffee, Conservation and Costa Rica
Advisor: Brian Wisenden

Evan Carlson, Jake Donnay, Jacob Larson,
Monteverde Cloud Forest Reserve from Past to Present: Methods of Conservation and Their Products
Advisor: Brian Wisenden

Kaitlyn Unterseher, Austin Leibel and Erin Odegaard
Costa Rica: Pioneers of Geothermal Energy
Advisor: Brian Wisenden

Blair Posusta
Analysis of Time Spans between Captures of PIT-tagged Painted Turtles across the Years 2006-2015 in Clay County, Minnesota
Advisor: Donna Stockrahm

Clarice Hickman, Brianna Cernohous and John Svoboda
Conservation of the Three-Wattled Bell Bird in Costa Rica
Advisor: Brian Wisenden

Marissa Reeves and Philip Larson
Assessing bee species diversity in local grassland ecosystems in order to determine conservation status
Advisor: Rebecca Andres

Emily Mammenga and Kayla Kenney
The effects of chronic and acute cortisol exposure on exploratory-boldness behavioral syndrome in zebrafish
Advisor: Shawn Garrett

Kelley Larson, Emily Bushaw, Hayley Hilfer and Tiffany Grieger
From Golf Course to Prairie: The Effects of Chemical Carryover on Plant Growth
Advisor: Alison Wallace

Hayley Hilfer, Trevor Harder, Taylor Jensen and Michael Holtan
Plants vs. Poison: Will chemical carryover affect the success of an ecological restoration of a former golf course to prairie?
Advisor: Alison Wallace

Annika Bordak
Prairie Restoration Butterfly Survey: A Pilot Study
Advisor: Rebecca Andres

Chandni Patel, Shelby Sieverding, Casey Johnshoy and Ashley Wood
Monitoring the Effects of Different Endocrine Disrupting Chemicals on the Developing Zebrafish
Advisors: Patricia Wisenden and Shawn Garrett

Jessica Loeffler and Jessica Lindstrom
Minnesota Painted Turtle Population Genetics using Microsatellites
Advisor: Sara Anderson

Shelby Sieverding, Casey Johnshoy, Chandni Patel and Ashley Wood
The Biological and Chemical Effects of Endocrine Disrupting Chemicals in the Red River
Advisor: Patricia Wisenden

Philip Larson and Stephanie Mongulla
Chemical ecology of predator-prey interactions in cephalopods
Advisor: Brian Wisenden

Kristen Anderson, Lahren Somdahl and Yeen Chee Chong
Ecosystems of Cabo Blanco Natural Reserve
Advisor: Brian Wisenden

Mikaela Hanson, Kendra Brand, Joseph Clayton and Madison Fladeland
Behavior and Biochemistry: Which Came First, the Behavior or the Cortisol?
Advisors: Shawn Garrett and Brian Wisenden

Jaden Witt, Jessica Noreen and Anne Pius
Biochemistry of Sick Cell Anemia
Advisor: Shawn Garrett

Chase Esslinger and Joseph O'Flanagan
Effects of Using an Aquaponic Growth System on the Cell Wall of Plants
Advisor: Andrew Marry

Alex Waldhauser, Anne Pius and Calanthea Mazoyo
Comparison of Methods for Culturing Soil Microbes and Screening for Antibiotic Production
Advisor: Leah Christensen

Janna Gilbertson and Heather North
Population-specific co-evolution of offspring antipredator competence and parental brood defense in Nicaraguan convict cichlids
Advisor: Brian Wisenden

Philip Larson, Randi Lenius and Bryana Dorner
The Marine Lab room as a general resource for curriculum enrichment and outreach
Advisor: Brian Wisenden

Megan Selanders, Trinh Pham and Tori Edwards
The Diagnosis and Treatment of Type Ia Von Gierke's Disease
Advisor: Shawn Garrett



PRESENTATION LISTINGS

Alison Barkhymer

Behavioral and Cortisol Response to Alarm Cues in Zebrafish

Advisor: Shawn Garrett

Jesse Nelson

Induced SAR on an Aquaponics System

Advisor: Andrew Marry

Shannon Smith and Amber Krenske

Are transfer students from two-year colleges ready to make the leap into a four-year program: A quantitative study in Human Physiology

Advisor: Patricia Wisenden

Charles Bergman and Alexander Kinsky

Using western blot analysis to observe cell-type specific localization of the photosynthesis proteins PDRP1 and PDRP2 in leaves of Zea mays.

Advisor: Chris Chastain

Mitchell Walker and Sushmita Shrestha

Assessing cell-type distribution of mRNAs for the maize photosynthesis genes PDRP1 and PDRP2 using qPCR

Advisor: Chris Chastain

Loida Guajardo

Development of a biomarker for use in identifying C4 grasses in a Tall Grass Prairie restoration project

Advisor: Chris Chastain

Benjamin LeMay

Exploring How Substrate Affects Plant Development in an Aquaponics System

Advisor: Brian Wisenden

Gregory Anderson

K-12 Curriculum Development using Marine Organisms

Advisor: Brian Wisenden

CHEMISTRY

Taysir Bader, Tori Edwards and Adefolarin Sijuwade,

The Effects of Freeze/Thaw Stress on Membrane Protein Composition of Antarctic Bacteria

Advisor: Michelle Tigges

Sarah Cannedy, Molly Kraemer and Joseph Clayton

Maple Syrup Urine Disease (Branched Chain Aminoaciduria)

Advisor: Shawn Garrett

Kendra Harpstead, Stacy Peterson and Emily Mammenga

The Biochemistry Behind the Metabolic Disease, Phenylketonuria

Advisor: Shawn Garrett

Taysir Bader, John Reynolds and Blair Posusta

A Review of the Metabolic Basis of Adrenoleukodystrophy

Advisor: Shawn Garrett

Ashley Wood, Chandni Patel, Casey Johnshoy and Shelby Sieverding

Enzyme Linked Immunosorbent Assays to Detect Levels of Endocrine Disrupting Chemicals in the Red River

Advisors: Patricia Wisenden and Shawn Garrett

Ayebabaraghoemi Daniels, Mariam Banjoko and Stephanie Nobei

An Overview of Cori's Disease and its Aftermath

Advisor: Shawn Garrett

Chase Esslinger, Joseph O'Flanagan and Katrina Mellegard

Classic Refsum Disease: A biochemical understanding

Advisor: Shawn Garrett

Chase Esslinger, Joseph O'Flanagan and Katrina Mellegard

Understanding changes in Lipid Bilayer Saturation Levels in response to Freeze Thaw Cycles for Psychrophilic Bacteria

Advisor: Michelle Tigges

Joseph Clayton, Madison Fladeland, Mikaela Hanson and Kendra Brand

Noninvasive cortisol testing in zebrafish: A methods development project.

Advisors: Brian Wisenden and Shawn Garrett

Vincent Anani, Gabriel Pankonin and Michael Suomie

The Role of Homocysteine levels in Down syndrome etiology

Advisor: Shawn Garrett

Ifeoluwa Obanla, Fanta Barrow and Adefolarin Sijuwade

Gaucher's Disease: Biochemistry and Metabolic Nature of the Lysosomal Storage Disease

Advisor: Shawn Garrett

CINEMA ARTS AND DIGITAL TECHNOLOGIES

Mindy Kraft

What's So Funny: the complexity of film comedies

Advisor: Kyja Kristjansson-Nelson

Derek Murray and Reno Walker

A Screening and Analysis of the Student Film Contact

Advisor: Thomas Brandau

Mindy Kraft, Ashley Field and Jamie Adams

Creating a Feminist Film

Advisor: Kyja Kristjansson-Nelson

COLLEGE OF ARTS, MEDIA, AND COMMUNICATION

Briana Schepper

Full Dome Installation: The Skies of Fargo/Moorhead

Advisor: Kyja Kristjansson-Nelson

COLLEGE OF EDUCATION AND HUMAN SERVICES

**Sara Bogardus, Emily Czichotzki
and Alicia Strayer**

*Family Factors that Effect EBD in Students,
and Strategies to Help*

Advisor: Keri DeSutter

COLLEGE OF SCIENCE, HEALTH, AND THE ENVIRONMENT

**Nancy Castro Borjas, Joseph Clayton
and Megan Selanders**

*Exploring membrane fluidity of Antarctic
bacteria in different salt environments using
a fluorescence probe*

Advisor: Michelle Tigges

Collin Nienhaus

*Plant Reproduction for Middle School
Students: A 5-E Model Science Lesson*

Advisor: Alison Wallace

Wyatt Pugh and Taysir Bader

*Synthetic Methodology Studies on the
Synthesis and Reactions of Pyrazolidione-
Derived Azomethine Imines*

Advisor: Craig Jasperse

**Elizabeth Overbo and Stephanie
Reynolds**

*The Effect of Temperature and Oxygen
Regulation within Vermicomposting Bins
Using Worms*

Advisors: Patricia Wisenden and Steve Lindaas

COMMUNICATION STUDIES

**Cody Wilson, Joseph Cleys
and Yannis Tomko**

*Cultivation Theory: An Exploration of the
Role of New Media*

Advisor: Jason Anderson

**David Bingham, Nedem Abdullahi,
Samuel Warnes and Emily Schnaidt**
*Social Influence: A Contemporary Look
at Asch's Normative Influence Research
Utilizing Taste Trials*

Advisor: Jason Anderson

Kelsie Roscoe

*Perceptions of Dating Apps: an examination
of message design and effects?*

Advisor: Jason Anderson

**Josie Nanik, Caitlyn McArthur
and Eram Khan**

Bystander Effect on MSUM Campus

Advisor: Jason Anderson

Leskie Haroldson

*Cross Cultural Dimensions: How do
audiences process messages in cultural
groups and social influence*

Advisor: Jason Anderson

COMPUTER SCIENCE AND INFORMATION SYSTEMS

Dmitrii Mudrechenko

*Cross-platform game development with
Cocos2dx*

Advisor: Andrew Chen

Kyle Berthiaume

Monsters in Minecraft: Making a Mod

Advisor: Andrew Chen

Jacob Humphrey

Programming Intelligence

Advisor: Andrew Chen

Brandin Barren,

The Future of A.I.

Advisor: Andrew Chen

Wyatt Lien

Virtual Reality

Advisor: Andrew Chen

Arnej Duranovic,

Arcade Games with Python

Advisor: Andrew Chen

Dustin Daily

Voiced interactive assistant

Advisor: Andrew Chen

Adomar Dizon

Concepts of Programming Languages

Advisor: Andrew Chen

Amber Freitag

NFC Deadbolt Entry

Advisor: Andrew Chen

Micheal Falowo

*Importance of Python in today's
programming world*

Advisor: Andrew Chen

Peter Thompson

*Developing in the Mobile App World – iOS
vs Android*

Advisor: Andrew Chen

Christopher Nichols

Comparison of C++ GUI Tools

Advisor: Andrew Chen

Dongkyu Lim

Application with library

Advisor: Andrew Chen

COUNSELING AND STUDENT AFFAIRS

Kelsey Stacken

*American universities and international
students: Bridging the gap through first
year experience*

Advisor: David Paul

Erin Edinger

*Accessible Tailgate Leadership Training for
Student Organizations*

Advisors: David Paul and Rebecca Jones

Kristin Nelson

*Last Year Experience Curriculum
Development Plan*

Advisor: David Paul



PRESENTATION LISTINGS

Brittany Meduna

Comprehensive School Based Suicide Prevention Program

Advisor: Lisa Karch

Catherine Jones

Adolescent Dating Violence Curriculum

Advisors: Taryn Akgul and Lisa Karch

Mara Wessel

An Online LGBTQ Comprehensive Resource for School Counselors in Minnesota

Advisor: Lisa Karch

ECONOMICS

Michael Kamper

The opportunity cost of being a student-athlete: An economic analysis of paying stipends to student-athletes

Advisor: Tonya Hansen

Callie Roth

Aligning theories with reality: Insights from neoclassical and behavioral economics

Advisors: Tonya Hansen and Vernon Dobis

Samantha Landstrom

Teaching economics to undergraduates with Terry Pratchett's Discworld series

Advisor: Tonya Hansen

Aaron Vanyo

Economic growth in Minnesota: A comparison of traditional and sustainable measurement methodologies

Advisors: Tonya Hansen and Vernon Dobis

Tyler Buersh

Market bubbles: Are they contagious?

Advisor: Tonya Hansen

Harrison Thier

A review of Minnesota children's birth weights: What can we do better?

Advisor: Tonya Hansen

Lindsey Schlabsz

Life After College Graduation: An Economic Analysis

Advisor: Tonya Hansen

EDUCATION

Brittany Swenson

Common Core State Standards Assessment: How High Stakes Testing Affects Students

Advisor: Sheila Marquardt

Leila Pritchett and Alexandra Kollman

The Life Cycle of Stars: a 5-E Model Science Lesson

Advisor: Alison Wallace

Amanda Murphy

The Conflation and Confusion of Multiple Intelligence Theory and Learning Styles

Advisor: Richard Lahti

ELEMENTARY AND EARLY CHILDHOOD EDUCATION

Amanda Littrell

Art in Education

Advisor: Abigail Bremer

ENGLISH

Rachael Elhardt

Text Specific Language in Speech at MSUM

Advisor: Elizabeth Kirchoff

FINANCE

Eric Krupke

Comparing portfolio diversification strategy performance

Advisor: Thomas Hanson

Amanda Feils

Proctor & Gamble: A Financial Analysis

Advisors: Sheri Erickson and Mohamed Elbannan

GEOLOGY/GEOGRAPHY

Lee Smalt

Informing Conventional Market Analysis with Geoanalytics

Advisors: Kirk Stueve and Wooyang Kim

Ryan Elvrum and Eric Schaefbauer

Measuring Activity Coefficient of NiO in Silicate Melt

Advisor: Russell Colson

Tyler Solberg

Predicting Runoff Pollution with Geospatial Analysis in Western North Dakota's Oil Fields

Advisor: Kirk Stueve

Nicholas Anderson, Alex Courneya, Matthew Hanna and Dominic Mugavero

Sequence Stratigraphic Analysis of the Upper Tyler Formation (Morrowan; Lower Pennsylvanian) in Western North Dakota

Advisor: Karl Leonard

Nicholas Anderson

Sequence Stratigraphy and Clay Mineralogy of Tyler formation deposits, Williston Basin, Western North Dakota with comparison to similar deposits of the Cypress Sandstone of the Illinois Basin for the characterization of EOR Potential

Advisor: Karl Leonard

GRADUATE STUDIES

Rebecca Hoffman

FedEx Corporation: A Financial Analysis

Advisor: Mohamed Elbannan

HEALTH AND PHYSICAL EDUCATION

Wendy Frappier

Thoracic Outlet Syndrome

Advisor: Wendy Frappier

William Danielson and Patrick Sorum
A Literature Review: Concussions and CTE
Advisors: Jay Albrecht and Dawn Hammerschmidt

Krista Flanagan and Baylie Clark
A Literature Review: Early Sport Specialization
Advisors: Jay Albrecht and Dawn Hammerschmidt

Cory Messer and Jonathan Dandurand
A Literature Review: Electrotherapy versus Manual Therapies
Advisors: Jay Albrecht and Dawn Hammerschmidt

Louie Farone and Asami Ameku
Vegetarian Diet in Athletics
Advisors: Jay Albrecht and Dawn Hammerschmidt

Evan Dewald and Scott Corneliusen
Effectiveness of Cold Water Immersion: A Literature Review
Advisors: Jay Albrecht and Dawn Hammerschmidt

Adam Aune and Kelsey Pavek
A Literature Review: Genetic Testing
Advisors: Jay Albrecht and Dawn Hammerschmidt

Isaac Knutson and Shane Sigler
A Literature Review: Performance Enhancing Drugs in Sport
Advisors: Jay Albrecht and Dawn Hammerschmidt

Shane Sigler and Isaac Knutson
A Literature Review: Performance Enhancing Drugs in Sport
Advisors: Jay Albrecht and Dawn Hammerschmidt

Tobias Boegel and Jonathan Dandurand
Things that Make Your Skin Crawl
Advisor: Wendy Frappier

HISTORY

Ashley Field
Numerical Symbolism
Advisor: Annette Morrow

Marissa Johnson
Dr. Maya Angelou: A Radical Woman
Advisor: Annette Morrow

Rob Glarum
Colonialism in Africa
Advisor: Nathan Clarke

Petra Gunderson
Camilla Collett: A Woman Among Men
Advisor: Annette Morrow

Bethany Lahlum
Lillian Moller Gilbreth: The Original Wonder Woman
Advisor: Annette Morrow

MATHEMATICS

Rostand Armel Fezeu
A conjectural generalizations of the Bertrand's Postulate
Advisor: Damiano Fulghesu

Lindsey Herda
Boolean Algebra -- Properties and Applications
Advisor: Justin James

Stefan Nelson
An Introduction to Zero-Knowledge Proofs
Advisor: Damiano Fulghesu

Abigail Christensen
The Four Color Theorem - An Exploration of Graph Theory
Advisor: Timothy Harms

Kelli Vosberg, Katherine Hansen and Kelly Gieschen
Archimedean Tiling: An Overview
Advisor: Damiano Fulghesu

Mara Haugen, Marnie Peterson and Alexis Hanson
The Nature of Fractals
Advisor: Damiano Fulghesu

Michael Coyle and Mariah Bultman
N-Dimensional Hyperbolic Geometries
Advisor: Damiano Fulghesu

Joseph Nosie
Design and Implementation of a Thin Lens Simulation Using HTML5/Javascript
Advisors: Justin James and Richard Lahti

Pratik Dahal
Topological Data Analysis
Advisor: Damiano Fulghesu

Pratik Dahal
Eulerian Numbers
Advisor: Erdenebaatar Chadraa

Kyle Benjamin and Aaron Bohl
The Butterfly Theorem
Advisor: Damiano Fulghesu

MUSIC

Hannah Hoeschen
Listening to Jazz: Understanding the Standards
Advisor: Laurie Blunsom

Fyl Orbus
STEAM vs STEM: The Arts in the context of special education and individuals with disabilities -- Is it really a valid debate?
Advisor: Laurie Blunsom

DIVERSITY AND INCLUSION

Sohany Figueroa Hernandez, Fadumo Aden and Telia Rattliff-Cross
Bindis, Burqas and Blackface: When does cultural "Borrowing" become ignorant appropriation?
Advisor: Olivia Matthews



PRESENTATION LISTINGS

Telia Rattliff-Cross and Sohany Figueroa Hernandez

Escaping your comfort zone: Finding your voice in the professional world

Advisor: Olivia Matthews

PHILOSOPHY

John Fitzer

The Ship of Theseus

Advisor: Laura Odom

Kelsey Slattery

What Constitutes the Good-Life Minimum and Are You Deserving of It?

Advisor: Marilea Bramer

PSYCHOLOGY

Samuel Birkholz

Retroactive Interference Effects on Procedural Memory

Advisor: Michael Root

Emma Johnson

Messy versus Clean Primary Environment:

Advisor: Christine Malone

Anne Langlois

Behavior Specific Praise and a Token Economy: Effects on Second Graders in a Tier II Social Skills Intervention

Advisor: Mary Dosch

Ashley Doll, Joshua Johnson and Kate LeBrasseur

Preschool Math Activities and Vocabulary: Do Math Words Matter?

Advisor: Lisa Stewart

Alyssa McDonough

Mindfulness in Education

Advisor: Lisa Stewart

Alyssa McDonough

Informal Science Education for Students with Disabilities

Advisors: Alison Wallace, Rochelle Bergstrom, Mary Dosch and Lisa Stewart

Cory Ambrose

The Influence of Attractiveness on Perceived Trustworthiness

Advisor: Mary Devitt

Carly Drew

Effects of a Class-Wide Token Economy on Fourth Grade Students Below the Line Reports

Advisor: Lisa Stewart

Caroline Kinskey, Ryan Hamilton, Emily Flake and Anne Nickell

Does Your Personality Incline You to Be Helpful?

Advisor: Gary Nickell

Sarah Hawn and Bianca Milz

Memory Blocking in Auditory Word Fragment Completion

Advisor: Christine Malone

Nicole Savageau

The Influence of Lighting on Motivation of a Cognitive Task

Advisors: Mary Devitt and Christine Malone

Katrina Cibuzar

Music and Personality: The Effect of Music and Gender on Personality Stereotypes

Advisor: Christine Malone

Rebecca Greenmyer

Music and the Dual Coding Theory on Word Recall

Advisor: Mary Devitt

Kyle Pollack and Tyler Carlson

Stigmas of Boarder Bias

Advisor: Michael Root

Emily Steinle

Use of Class Dojo: Positive Reinforcement in a Third Grade Classroom

Advisor: Mary Dosch

Tyler Carlson

Candidate Attractiveness and Job Hiring Decision

Advisor: Mary Devitt

Caleb Battenhoff

Attractiveness and attraction based on familiarity and expression

Advisor: Mary Devitt

Kristen Boomer

Teaching Math Vocabulary in Preschool: A Comparison of Techniques

Advisor: Lisa Stewart

Kristin Hawkinson

Problem Solving and Achievement Motivation: The Impact of Ill-advised Guidance on Productive Failure

Advisor: Christine Malone

Sarah Hawn

The Effects of Weather Primed Moods on Reading Comprehension Test Performance

Advisor: Mary Devitt

Aubrey Borgen

Discrimination of Emotion in Music and Dance

Advisor: Elizabeth Nawrot

SCHOOL OF COMMUNICATION AND JOURNALISM

MaKayla Schroeder, Leandra Zeller, Ceanna Egan and Angelica Minder

What Makes Students Return to Universities: A Closer Look at the Relation between First Year Experience Courses, On-Campus Housing, and Overall Campus Involvement

Advisor: Jason Anderson

Grant Longbella, Mitchell Knudsvig, Brooke Olson and Stephanie Holthusen

Media Effects and Relationships

Advisor: Jason Anderson

SCHOOL OF MEDIA ARTS AND DESIGN

Jessy Hegland

Engrossed out: Practical effects and the corporeal affect in the films of David Cronenberg

Advisor: Anthony Adah

Derek Bauer

The Poetics of Violence in Michael Haneke's Films

Advisor: Anthony Adah

Samantha Szczesny, Kevin Schwab, Eric Bye, Justin Clem, Tyler Fischbach, Thomas Garzon, Kaitlyn Mann and Jennifer Natole

Interactive Educational Website Content for The World Garden Commons

Advisor: Alexandria Fogarty

Joseph Coot

(De)Constructing Personae in the Films and Music Video of David Bowie

Advisor: Anthony Adah

SCHOOL OF TEACHING AND LEARNING

Johnnel Bartee

Can Every Student Succeed?

Advisor: Sheila Marquardt

SOCIOLOGY AND CRIMINAL JUSTICE

Cynthia Hanson

What you do not know about healthcare reform may kill you

Advisor: Susan Humphers-Ginther

Linda Vue

Myopia: Is the future of the world going blurry?

Advisor: Susan Humphers-Ginther

SPEECH LANGUAGE HEARING SCIENCES

Katelyn Grogan

Investigation of modified response elaboration training approach to aphasia treatment

Advisors: Nancy Paul and Joni Mehrhoff

Lauren Rud

Ethical and Quality of Life Considerations Related to AAC Implementation and Use

Advisor: Kris Vossler

Kristin Welinski

Origin of The Lee Silverman Voice Treatment (LSVT) and Expansion for Other Disorders

Advisor: Nancy Paul

Jenna Wavrin

Evaluating the Evidence for Non-speech Oral Motor Exercises in the Treatment of Adult-Onset Dysarthria

Advisor: Nancy Paul

Heidi Avelsgard

A Comparison of Two Treatment Approaches for Childhood Apraxia of Speech

Advisor: Elaine Pyle

Marina Culver

The Use of Therapy and Assistance Dogs for Children with Autism Spectrum Disorder (ASD).

Advisor: Kris Vossler

Kayse Salo

Analysis of Chin Tuck Swallowing Intervention Using Evidence-Based Practice Model

Advisor: Nancy Paul

Alison Yliniemi

A Review of the Literature: Early Intervention Relating to Speech-Language Pathology

Advisor: Kris Vossler

Alexandra Heisler and Rebecca Paul

Reviewing the Literature on the Experiences of College Aged Students with Hearing Loss

Advisors: Mary Drake and Nancy Paul

Jennifer DeBlieck and Nicole McAleer

Entry-Level Speech Language Pathologists' Perceptions of Effectiveness of Graduate School Education: A National Survey

Advisors: Nancy Paul and Elaine Pyle

Jaclyn Bachmeier

A Comparison of Treatment Approaches in Children with Autism

Advisor: Kris Vossler

Katelynn Trisko

The Use of Peer-Mediated Intervention on the Acquisition of Social Skills in Children with Autism

Advisor: Kris Vossler

Hailee Morford

The Use of Social Skills Interventions in the School Setting For Children with High Functioning Autism

Advisor: Kris Vossler

Kora Christian

A Comparison of Three Relationship-Based Intervention Approaches for Children with Language Disorders

Advisor: Elaine Pyle

Shyanne Driscoll

Quality of Life Scales for Individuals with Aphasia: A Systematic Review

Advisor: Nancy Paul

Katie Madsen

Comparison of Three Interventions for Children with Feeding Disorders

Advisor: Nancy Paul

Emily Wahl

The Use of Gestures to Elicit Early Expressive Language in Children with Down Syndrome

Advisor: Elaine Pyle

Rebecca Peterson

Parents as Interventionists: Evidence Base and Implementation of Two Naturalistic Language Intervention Strategies

Advisor: Elaine Pyle



PRESENTATION LISTINGS

Haley Nordskog

Exploration of the Roles of SLPs in the NICU

Advisor: Nancy Paul

Amelia Roper

The Need for Education of Communication

Partners of Persons with Aphasia

Advisor: Nancy Paul

Ashley DeBrouwere

Communicating With Dementia:

Examining the Effect Communicative

Impairments Have on Intra- and

Interpersonal Relationships

Advisor: Nancy Paul

Olivia Huber

Training Process of Communication

Partners of Individuals with Aphasia

employing a Speech Generating Device:

A Qualitative Study

Advisor: Kris Vossler

Danielle Stein

Comparison of English and Spanish

Language Acquisition

Advisor: Kris Vossler

Emma Van Valkenburg and Inga Sveen

The Experiences of Individuals with Down

Syndrome As They Transition Out of High

School from the Perspectives of Their

Guardians and School-based Special

Education Professionals

Advisors: Elaine Pyle and Kris Vossler

Louisa Jastram and Tirzah Anderson

A Confluence of Quality: Academic,

Cultural, and Personal Growth through

Study Abroad in Costa Rica and Korea

Advisor: Janet Brandau

SUSTAINABILITY

Gary George

Simulating the Extent of a Riparian

Woodland in the Northern Tallgrass Prairie

Advisor: Kirk Stueve

STUDY ABROAD

Katharine Aarness, Evan Geiger

and Evangeline Holley

A Confluence of Quality: Academic,

Cultural, and Personal Growth through

Study Abroad in the UK and Europe

Advisor: Janet Brandau

Georgia Odamtten

Life in another country

Advisor: Janet Brandau



Notes...

